```
 1                   M   A   P   L   C   P   S   P   W   L   P   L    12
 1   ACA GTC AGC CGC ATG GCT CCC CTG TGC CCC AGC CCC TGG CTC CCT CTG  48

13   L   I   P   A   P   G   L   T   V   Q   L   L   S                 28
49   TTG ATC CCG GCC CCT CCA GGC CTC ACT GTG CAA CTG CTG TCA          96

29   L   M   L   M   P   V   H   P   Q   R   L   R   M   Q             44
97   CTG CTT ATG CTG CCT GTC CAT CCC CAG AGG TTG CGG ATG CAG         144

45   E   D   S   P   L   G   G   S   S   G   E   E   D   P   L         60
145  GAG GAT TCC CCC CTG GGA GGC TCT TCA GGG GAA GAG GAT CCA CTG     192

61   G   E   E   D   L   P   S   P   S   E   D   S   P   R   E   D     76
193  GGC GAG GAG GAT CTG CCC AGT CCC TCT GGG GAA GAT TCA CCC AGA GAG GAG GAT  240

77   P   G   E   E   G   E   E   P   G   E                             92
241  CCA CCC GGA GAG GAG GAG GAA GAG GAG GGA CTA CCT GGA GAG         288

93   E   D   L   P   L   D   E   E   G   E   E   S   L                108
289  GAG GAT CTA CCT GAA GTT AAG CCT CCT AAG TCA AAA GAA GAA GGC TCC CTG  336

109  K   E   L   E   D   L   P   T   V   E   A   P   G   D   P   Q   E 124
337  AAG TTA GAG GAT CTA CCT ACT GTT GAG GCT CCT GGA GAT CCT CAA GAA 384

125  P   Q   N   A   H   R   D   K   E   G   D   Q   S   H           140
385  CCC CAG AAT AAT GCC CAC AGG GAC AAA GAA GGG GAT CAG AGT CAT     432

141  W   R   Y   G   G   D   P   P   W   P   R   V   S   P   A   C   156
433  TGG CGC TAT GGA GGC GAC CCG CCC TGG CCC CGG GTG TCC CCA GCC TGC 480

157  A   G   R   F   Q   S   P   V   D   I   R   P   Q   L   A   A   172
481  GCG GGC CGC TTC CAG TCC CCG GTG GAT ATC CGC CCC CAG CTC GCC GCC 528
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FIG._1A

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173  F   C   P   A   L   R   P   L   E   L   L   G   F   Q   L   P    188
529 TTC TGC CCG GCC CTG CGC CCC CTG GAA CTC CTG GGC TTC CAG CTC CCG   576

189  P   L   P   E   L   R   L   N   N   G   H   S   V   Q   L   L    204
577 CCG CTC CCA GAA CTG CGC CTG AAC AAT GGC CAC AGT GTG CAA CTG CTG   624

205  T   L   P   G   L   M   E   A   L   G   P   R   E   Y   G   R    220
625 ACC CTG CCT GGT CTA ATG GAG GCT CTG GGG CCC CGG GAG TAC GGG CGG   672

221  R   A   L   Q   L   H   L   H   W   G   A   A   G   R   P   G    236
673 CGG GCT CTG CAG CTG CAT CAC CAC TGG GGC GCA GCT GGT CGT CCG GGC   720

237  S   E   H   T   V   E   G   H   R   F   A   E   I   H   V        252
721 TCG GAG CAC ACT GTG GAA GGC CAC CGT TTC GCC GCC ATC CAC GTG       768

253  V   H   L   S   T   A   F   R   A   V   D   E   A   L   G   R    268
769 GTT CAC CTC AGC ACC GCC TTT AGA GCC GTT GAC GAG GCC TTG GGG CGC   816

269  P   G   G   L   A   V   A   F   L   A   F   L   E   E   P   E    284
817 CCG GGA GGC CTG GCC GTG GCC TTT CTG GCC TTT CTG GAG GAG CCG GAA   864

285  E   N   S   A   Y   E   Q   E   L   S   R   L   E   E   I   A    300
865 GAA AAC AGT GCC TAT GCC CAG GAG TTG TCT CGC CTG GAA GAA ATC GCT   912

301  E   G   S   E   T   Q   V   P   G   L   D   I   S   A   L        316
913 GAG GGC TCA GAG ACT CAG GTC CCA GGA CTG GAC ATA TCT GCA CTC       960

317  L   P   D   F   S   R   Y   F   Q   Y   E   G   S   L   T        332
961 CTG CCC GAC TTC AGC CGC TAC TTC CAA TAT GAG GGG TCT CTG ACT       1008

333  T   P   P   C   A   Q   G   V   I   W   T   V   F   N   Q   T    348
1009 ACA CCG CCC TGT GCC CAG GGT GTC ATC TGG ACT GTG TTT AAC CAG ACA  1056
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FIG._1B

FIG._1

```
349   V   M   L   S   A   K   Q   L   H   T   L   S   D   T   L   W    364
1057  GTG ATG CTG AGT GCT AAG CAG CTC CAC ACC CTC TCT GAC ACC CTG TGG  1104

365   G   P   G   D   S   R   L   Q   N   F   R   A   T   Q   P         380
1105  GGA CCT GGT GAC TCT CGG CTA CAG AAC TTC CGA GCG ACG CAG CCT       1152

381   L   N   G   R   V   I   E   A   S   F   P   A   G   V   D   S    396
1153  TTG AAT GGG CGA GTG ATT GAG GCC TCC TTC CCT GCT GGA GTG GAC AGC  1200

397   S   P   R   A   A   E   P   V   Q   L   N   S   C   L   A   A    412
1201  AGT CCT CGG GCT GCT GAG CCA GTC CAG CTG AAT TCC TGC CTG GCT GCT  1248

413   G   D   I   L   A   L   V   F   G   L   L   F   A   V   T   S    428
1249  GGT GAC ATC CTA GCC CTG GTT TTT GGC CTC CTT TTC GCT GTC ACC AGC  1296

429   V   A   F   L   V   F   Q   M   R   R   Q   H   R   R   T   K    444
1297  GTC GCG TTC CTT GTT TTC CAG ATG AGA AGG CAG CAC AGA AGG ACC AAA  1344

445   G   G   V   S   Y   R   P   A   E   V   A   E   T   G   A   *    460
1345  GGG GGT GTG AGC TAC CGC CCA GCA GAG GTA GCC GAG ACT GGA GCC TAG  1392

1393  AGG CTG GAT CTT GGA GAA TGT GAG AAG CCA GCC AGA GGC ATC TGA GGG  1440

1441  GGA GCC GGT AAC TGT CCT GTC CTG CTC ATT ATG CCA CTT CCT TTT AAC  1488

1489  TGC CAA GAA ATT TTT TAA AAT AAA TAT TTA TAA T                    1522
```

FIG._1C

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   1  ggatcctgtt gactcgtgac cttacccca  acctgtgct  cctgaaaca  tgagctgtgt
  61  ccactcaggg ttaaatggat taaggcggt  gcaagatgtg ctttgttaaa cagatgcttg
 121  aaggcagcat gctcgttaag agtcatcacc aatccctaat ctcaagtaat caggacaca
 181  aacactgcgg aaggccgcag ggtcctctgc ctaggaaaac cagagacctt tgttcacttg
 241  tttatctgac cttccctcca ctattgtcca tgaccctgcc aaatcccct  ctgtgagaaa
 301  cacccaagaa ttatcaataa aaaaataaat ttaaaaaaaa aatacaaaaa aaaaaaaaa
 361  aaaaaaaaaa gacttacgaa tagttattga taaatgaata gctattggta aagccaagta
 421  aatgatcata ttcaaaacca gacggccatc atcacagctc aagtctacct gatttgatct
 481  ctttatcatt gtcattcttt ggattcacta gattagtcat catcctcaaa attctcccc
 541  aagttctaat tacgttccaa acatttaggg gttacatgaa gcttgaacct actaccttct
 601  ttgctttga  gccatgagtt gtaggaatga tgagttaca  ccttacatgc tggggattaa
 661  tttaaacttt acctctaagt cagttgggta gcctttggct tattttgta  gctaattttg
 721  tagttaatgg atgcactgtg aatcttgcta tgatagttta cctccacact ttgccactag
 781  gggtaggtag gtactccagtt ttcagtaatt gcttacctaa gaccctaagc cctatttctc
 841  ttgtactggc ctttatctgt aatatgggca tatttaatac aatataattt ttggagtttt
 901  tttgtttgtt tgttttgttg tttttttgag acggagtctt gcatctgtca tgcccaggct
 961  ggagtagcag tggtgccatc tcggctcact gcaagctcca cctcccgagt tcacgccatt
1021  ttcctgcctc agcctcccga gtagctggga ctacaggcgc ccgccaccat gcccggctaa
1081  tttttgtat  ttttgtagа  gacggggttt caccgtgtta gccagaatgg tctcgatctc
1141  ctgacttcgt gatccaccg  cctcggcctc ccaaagttct gggattacag gtgtgagcca
1201  ccgcaccctgg ccaatttttt ttccttttta agtaaaaat  atgtcttgta agctggtaac
1261  tatggtacat ttccttttat taatgtggtg ctgacggtca tataggtct  tttgagtttg
1321  gcatgcatat gctacttttt gcagtccttt cattacattt ttctctcttc atttgaagag
1381  catgttatat cttttagctt cacttggctt aaaaggttct ctcattagcc taacacagtg
1441  tcattgttgg taccacttgg atcataagtg gaaaaacagt caagaaattg cacagtaata
1501  cttgtttgta agagggatga ttcaggtgaa tctgacacta agaaactccc ctacctgagg
1561  tctgagattc ctctgacatt gctgtatata ggcttttcct ttgacagcct gtgactgcgg
1621  actatttttc ttaagcaaga tatgctaaag ttttgtgagc ctttttccag agagaggtct
1681  catatctgca tcaagtgaga acatataatg tctgcatgtt tccatatttc aggaatgttt
1741  gcttgtgttt tatgctttta tatagacagg gaaacttgtt cctcagtgac ccaaaagagg
1801  tgggaattgt tattggatat catcattggc ccacgctttc tgaccttgga aacaattaag
1861  ggttcataat ctcaattctg tcagaattgg tacaagaaat agctgctatg tttcttgaca
1921  ttccacttgg taggaaataa gaatgtgaaa ctcttcagtt ggtgtgtgtc cct?gtttttt
```

FIG._2A

```
1981  ttgcaatttc  cttcctactg  tgttaaaaaa  aagtatgatc  ttgctctgag  aggtgaggca
2041  ttcttaatca  tgatctttaa  agatcaataa  tataatcctt  tcaaggatta  tgtctttatt
2101  ataataaaga  taatttgtct  ttaacagaat  caataatata  atcccttaaa  ggattatatc
2161  tttgctgggc  gcagtggctc  acacctgtaa  tcccagcact  ttgggtggcc  aaggtggaag
2221  gatcaaattt  gcctacttct  atattatctt  ctaaagcaga  attcatctct  cttcccctcaa
2281  tatgatgata  ttgacagggt  ttgccctcac  tcactagatt  gtgagctcct  gctcagggca
2341  ggtagcgttt  tttgtttttg  tttttgtttt  tcttttttga  gacagggtct  tgctctgtca
2401  ccaggccag   agtgcaatgg  tacagtctca  gctcactgca  caggcacatg  cctcggctca
2461  aaccatcatc  ccatttcagc  ctcctgagta  gctgggacta  caggcacacc  ccattacacc
2521  tggctaattt  ttttgtattt  ctagtagaga  caggtttgg   ccatgtgtgc  cgggctggtc
2581  tcgaactcct  ggactcaagc  aatccaccca  cctcagcctc  ccaaaatgag  ggaccgtgtc
2641  ttattcattt  ccatgtccct  agtccatagc  ccagtgctgg  acctatggta  gtactaaata
2701  aatatttgtt  gaatgcaata  gtaaatagca  tttcagggag  caagaactag  attaacaaag
2761  gtggtaaaag  gtttggagaa  gtttaatttg  gcaaggtttt  gaaggaagtt  ggaagtcaga
2821  agtaggagac  aagatggaaa  ggtctcttgg  tggggagcca  atgaaggctt  ttgagcagga
2881  agtacacaat  gtgcatatcg  tggcaggcag  tggggagcca  atgaaggctt  ttgagcagga
2941  gagtaatgtg  ttgaaaaata  aatataggtt  aaacctatca  gagcccctct  gacacataca
3001  cttgctttttc  attcaagctc  aagtttgtct  cccacatacc  cattacttaa  ctcacccctcg
3061  ggctcccta   gcagcctgcc  ctacctcttt  acctgcttcc  tggtggagtc  agggatgtat
3121  acatgagctg  ctttccctct  cagccagagg  acatggggggg  cccagctcc   cctgcctttc
3181  ccttctgtg   cctggagctg  ggaagcaggc  cagggttagc  tgaggctggc  tggcaagcag
3241  ctgggtggtg  ccagggagag  cctgcatagt  gccagtggt   gccttgggtt  ccaagctagt
3301  ccatggcccc  gataaccttc  tgcctgtgca  cacacctgcc  cctcactcca  ccccccatcct
3361  agctttggta  tgggggagag  ggcacagggc  cagacaaacc  tgtgagactt  tggctccatc
3421  tctgcaaaag  ggcgctctgt  gagtcagcct  gctcccctcc  agccttgctc  ctccccacc
3481  cagctctcgt  ttccaatgca  cgtacagccc  gtacacaccg  tgtgctggga  cacccCACAG
3541  TCAGCCGCAT  GGCTCCCCTG  TGCCCCAGCC  CTGCTGCTGT  TCTGGCTCCC  GTCCATCCCC
3601  CTCCAGGCCT  CACTGTGCAA  CTGCTGCTGT  CACTGCTGCT  TCTGGTGCCT  GTCCATCCCC
3661  AGAGGTTGCC  CCGGATGCAG  GAGGATTCCC  CCTTGGGAGG  AGGCTCTTCT  GGGGAAGATG
3721  ACCCACTGGG  CGAGGAGGAT  CTGCCCAGTG  AAGAGGATTC  ACCCAGAGAG  GAGGAAGATG
3781  CCGGAGAGGA  GGATCTACCT  GGAGAGGAGG  ATCTACCTGG  AGAGGAGGAT  CTACCTGAAG
3841  TTAAGCCTAA  ATCAGAAGAA  GAGGGCTCCC  TGAAGTTAGA  GGATCTACCT  ACTGTTGAGG
3901  CTCCTGGAGA  TCCTCAAGAA  CCCCAGAATA  ATGCCCCACAG  Ggtaagtggt
```

FIG._2B

```
3961  catcaatctc  caaatccagg  ttcatgactc  cctcccata  cccagccta
4021  ggctctgttc  actcaggga  ggagggga  ctgtactccc  cttccagagg
4081  tcccatacca  atatccccat  cccactctc  ggaggtagaa  gtggagagaa
4141  aataaaagg   gtgcaaaagg  agagaggtga  gctggatgag  aggggggagc
4201  tggagaagag  aaaggatga   gaactgcaga  tgagagaaa   cagaggaaaa
4261  aaataggtgg  agaaggagag  tcagagagtt  tgaggggaag  agcttgggag
4321  gtgaagtggg  taccagagac  aagcaagaag  agctggtaga  agtcatctca
4381  caatgaggaa  ttgagaccta  ggaagaaggg  acacagcagg  tagagaaacg
4441  actcccaagc  caggaatttg  gggaaagggg  ttggagacca  tacaaggcag
4501  ggggagaaga  aagaagaaaga aaaggaaaaga tggtgtactc  actcattttgg
4561  tgaagtgccc  actcactttt  ttttttttt   ttttttgagac aaactttcac
4621  caggctggag  tgcaatggcg  cgatctcggc  tcactgcaac  ctccacctcc
4681  tgattctcct  gcctcagcct  ctagccaagt  agctgcgatt  acaggcatgc
4741  ccggctaatt  tttgtatttt  tagtagagac  ggggtttcgc  catgttggtc
4801  cgaactcctg  atctcaggtg  atccaaccac  cctggcctcc  caaagtgctg
4861  cgtgagccac  agcgcctggc  ctgaagcagc  cactcactt   aagacaatga
4921  ttgcaagctg  gtaggattgc  tgtttggccc  accagctgc   ggtgttgagt
4981  tctcctgtgc  tttgcaccctg gccggcttaa  ggcatttgtt  accgtaatg
5041  gcatctgcgt  gtttgtgacatc gttttggtcg  ccaggaaggg  attgggggctc
5101  cggttcatcc  tttcattta   tacagGGGAT  GACCCAGAGTC ATTGGGCGCTA
5161  acacccaccc  gctgcacaga  cccaatctgg  gaacccagct  ctgtggatct
5221  cgtccctgaa  cactggtccc  gggcgtccca  cccgccgccc  ccctacagc
5281  tttctacccg  ggttcccctaa gttcctgacc  taggcgtcag  acttcctcacct
5341  caccccagGC GACCCGCCCT GGCCCCGGGT GTCCCCAGCC TGCGCGGGCC
5401  CCCGGTGGAT ATCCGCCCCC AGCTGCCCGC CTTCTGCCCG GCCCTGCGCC
5461  CCTGGGCTTC CAGCTCCCGC CGCTCCCAGA ACTGCGCCTG CGCAACAATG
5521  tgaggggtc  tccccgccga  gacttgggga  tggggcgggg  cgcagggaag
5581  cgcagtgcct  gccgggggt   tgggctggcc  ctaccgggcg  gggccgggctc
5641  ccctacgcag TGCAACTGAC CCTGCCTCCT GCATCTGCAC GGGCTAGAGA
5701  GAGTACCGGG CTCTGCAGCT GCATCTGCAC TGGGGGGCTG CAGGTCGTCC
5761  CACACTGTGG AAGGCCACCG TTTCCCTGCC GCATCTGCAC GAGGtgagcg
5821  aaaggagcgg  ggcggacggg  ggccagagac  gtgccctct   cctaccctcg
5881  agATCCACGT GGTTCACCTC AGCACCGCCT TTGCCAGAGT TGACGAGGCC
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5941  CGGGAGGCCT GGCCGTGTTG GCCGCCTTTC TGGAGgtacc caccccctac agatcctga
6001  tccccgcttt cccatcccat gctcctcccg gactctatcg tggagccaga gacccccatcc
6061  cagcaagctc actcaggccc ctgctgaca aactcattca cgcactgtt gttcatttaa
6121  cacccactgt gaaccaggca ccagccccca acaaggattc tgaagctgta ggtccttgcc
6181  tctaaggagc ccacagccag tgggggaggc tgacatgaca gacacatagg aaggacatag
6241  taaagatggt ggtcacagag gaggtgacac ttaaagcctt cactggtaga aaagaaaagg
6301  agtgttcat tgcagaggaa acagaatgtg caaagactca gaatatggcc tatttaggga
6361  atggctacat acaccatgat tagagaggc ccagtaaagg gaagggatgg tgagatgcct
6421  gctaggttca ctcactcact tttatttatt tatttatttt tttgacagtc tctctgtcgc
6481  ccaggctgga gtgcagtggt gtgatcttgg gtcactgcaa cttccgcctc ccgggttcaa
6541  gggattctcc tgcctcagct tcctgagtag ctgggggttac agtgtgtgtgc caccatgccc
6601  agctaatttt tttttgtatt tttagtagac agggtttcac catgttggtc aggctggtct
6661  caaactcctg gcctcaagtg atccgcctga ctcagcctac caaagtgctg attacaagtg
6721  tgagccaccg tgcccagcca cactcactga ttctttaatg ccagccacac agcacaaagt
6781  tcagagaaat gcctccatca tagcatgtca atatgttcat actcttaggt tcatgatgtt
6841  cttaacatta ggttcataag caaaataaga aaaaagaata ataaataaaa gaagtggcat
6901  gtcaggacct cacctgaaaa gccaaacaca gaatcatgaa ggtgaatgca gaggtgacac
6961  caacacaaag gtgtatatat ggtttcctgt ggggagtatg tacggaggca gcagtgagtg
7021  agactgcaaa cgtcagaagg gcacgggtca ctgagagcct agtatcctag taaagtgggc
7081  tctctcccc tctctccagc ttgtcattga aaaccagtcc accaagcttg ttggttcgca
7141  cagcaagagt acatagagtt tgaaataata cataagatt taagaggg acactgtctc
7201  taaaaaaaa acaacagca acaacaacca gcaacaacca ttacaattt atgttccctc
7261  agcattctca gagctgagga atgggagagg actatgggaa cccccttcat gttccggcct
7321  tcagccatgg ccctggatac atgcactcat ctgtcttaca atgtcattcc cccagGAGGG
7381  CCCGGAAGAA AACAGTGCCT ATGAGCAGTT GCTGTCTCGC TTGGAAGAAA TCGCTGAGGA
7441  AGgtcagttt gttggtctgg ccactaatct ctgtgccta gttcataaag aatcaccctt
7501  tggagcttca ggtctgaggc tggagatggg ctccctccag tgcaggaggg attgaagcat
7561  gagccagcgc tcatcttgat aataaccatg aagctgacag acacagttac ccgcaaacgg
7621  ctgcctacag attgaaaacc aagcaaaaac cgccgggcac ggtggctcac gcctgtaatc
7681  ccagcacttt gggaggccaa ggcaggtgga tcacgaggtc aagagatcaa gaccatcctg
7741  gccaacatgg tgaaacccca tctctactaa aaatacgaaa aaatagccag gcgtggtggc
7801  gggtgcctgt aatcccagct actcgggagg ctgaggcagg agaatggcat gaaccccgga
7861  ggcagaagtt gcagtgagcc gagatcgtgc cactgcactc cagcctgggc aacagagcga
```

FIG._2D

```
7921  gactcctgtc  tcaaaaaaaa  aaaaaaaaaa  gaaaaccaag  caaaaaccaa  aatgagacaa
7981  aaaaaacaag  accaaaaaat  ggtgtttgga  aattgtcaag  gtcaagtctg  gagagctaaa
8041  cttttctga  gaactgttta  tcttttaataa  tttttaactt  gtaaatactt
8101  ttgttggaaa  tcgttctctt  cttagtcact  cttggtcat   ccttgcatt   tcttgtgtct
8161  ctagacttt   taggtttctg  ctagactagg  tagaactctg  ccttttgcatt  tttttttctt
8221  gtttgtata   gttatcaata  ttcatattta  tttacaagtt  attcagatca  ttttttcttt
8281  tctttttttt  tttttttttt  tttttttacat  ctttagtaga  gacagggttt  caccatattg
8341  gccaggctgc  tctcaaactc  ctgacctgt   gatccaccag  cctcggcctc  ccaaagtgct
8401  gggattcatt  ttttctttt   aatttgctct  gggcttaaac  ttgtggccca  gcactttatg
8461  atggtacaca  gagttaagag  tgtagactca  gacggtcttt  cttcttcct   tctcttcctt
8521  cctcccttcc  ctcccacctt  cccttctctc  cttccttct   ttccttcct   cttgcttcct
8581  caggcctctt  ccagttgctc  caaagcccctg  tacttttttt  tgagttaacg  tcttatggga
8641  agggcctgca  cttagtgaag  aagtggtctc  agagttgagt  tacccttgct  tctgggaggt
8701  gaaactgtat  ccctataccc  tgaagcttta  ggggggtgca  atgtagatga  gacccccaaca
8761  tagatcctct  tcacagGCTC  AGAGACTCAG  GTCCCAGGAC  TGGACATATC  TGCACTCCTG
8821  CCCTCTGACT  TCAGCCGCTA  CTTCCAATAT  GAGGGGTCTC  GCCCTGTGCC
8881  CAGGGTGTCA  TCTGGACTGT  GTTTAACCAG  ACAGTGATGC  TGAGTGCTAA  GCAGgtgggc
8941  ctggggtgtg  tgtggacaca  gtgggtgcgg  gggaaagagg  atgtaagatg  agatgagaaa
9001  caggagaaga  aagaaatcaa  ggctgggctc  tgtggcttac  gcctataatc  ccaccacgtt
9061  gggaggctga  ggtgggagaa  tggtttgagc  ccaggagttc  aagacaaggc  ggggcaacat
9121  agtgtgaccc  catctctacc  aaaaaaaccc  caacaaaacc  aaaaatagcc  gggcatggtg
9181  gtatgcggcc  tagtcccagc  tactcaagga  ggctgaggtg  ggagatcgc   ttgattccag
9241  gagtttgaga  ctgcagtgag  ctatgatccc  accactgcct  accatcttta  ggatacattt
9301  atttatttat  aaaagaaatc  aagagggctgg  atggggaata  caggagctgg  agggtggagc
9361  cctgaggtgc  tggttgtgag  ctggcctggg  acccttgttt  cctgtcatgc  catgaaccca
9421  cccacactgt  ccactgacct  ccctagCTCC  ACACCCTCTC  TGACACCCTG  TGGGGACCTG
9481  GTGACTCTCG  GCTACAGCTG  AACTTCCGAG  CGACGCAGCC  TTTGAATGGG  CGAGTGATTG
9541  AGGCCTCCTT  CCCTGCTGGA  GTGGACAGCA  GTCCTCGGGC  TGCTGAGCCA  Ggtacagctt
9601  tgtctggttt  ccccccagcc  agtagtccct  tatcctccca  tgtgtgtgcc  agtgtctgtc
9661  atggtggtc   acagcccgcc  tctcacatct  cctttttctc  tccagTCCAG  CTGAATTCCT
9721  GCCTGGCTGC  TGgtgagtct  gcccctcctc  ttgtcctga   tgccaggaga  ctcctcagca
9781  ccattcagcc  ccagggctgc  tcagaccgc   ctctcctttc  tctcctttc   tgcagaacag
9841  accccaaccc  caatattaga  gaggcagatc  atggtgggga  ttcccccatt  gtccccagag
```

FIG._2F

```
 9901 gctaattgat tagaatgaag cttgagaaat ctcccagcat ccctctcgca aaagaatccc
 9961 ccccctttt tttaaagata gggtctcact ctgtttgccc caggctgggg tgttgtggca
10021 cgatcatagc tcactgcagc ctcgaactcc taggctcagg caatccttc  acctttagctt
10081 ctcaaagcac tgggactgta ggcatgagcc actgtgcctg gccccaaacg gcccttttac
10141 ttggctttta ggaagcaaaa acggtgctta tcttacccct tctcgtgtat ccaccctcat
10201 cccttggctg gcctcttctg gagactgagg ctgcctgaga actcggggca
10261 gggtgggtgg agtgcactga ggcaggtgtt gaggaactct gcagacccct cttccttccc
10321 aaagcagccc tctctgctct ccatcgcagG TGACATCCTA GCCCTGGTTT TTGGCCTCCT
10381 TTTTGCTGTC ACCAGCGTCG CGTTCCTTGT GCAGATGAGA AGGCAGCACA Ggtattacac
10441 tgaccctttc ttcagcgaca agcttccccc agtcacttca tgcaaagcgc
10501 atgcaaatga gctgctcctg ggccagtttt ctgattagcc tttcctgttg tgtacacaca
10561 gAAGGGGAAC CAAAGGGGGT GTGAGCTACC GCCCAGCAGA GGTAGCCGAG ACTGGAGCCT
10621 AGAGGCTGGA TCTTGGAGAA TGTGAGAAGC CAGCCAGAGG CATCTGAGGG GGAGCCGGTA
10681 ACTGTCCTGT CCTGCTCATT ATGCCACTTC CTTTTAACTG CCAAGAAATT TTTTAAAAATA
10741 AATATTTATA ATaaaatatg tgttagtcac ctttgttccc caaatcagaa ggaggtattt
10801 gaatttccta ttactgttat tagcaccaat ttagtggtaa tgcatttatt ctattacagt
10861 tcggcctcct tccacacatc actccaatgt gttgctcc
```

FIG._2A
FIG._2B
FIG._2C
FIG._2D
FIG._2E
FIG._2F

FIG._2

FIG._3

FIG._4A

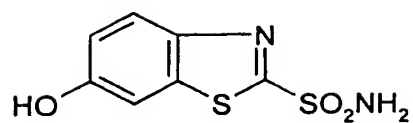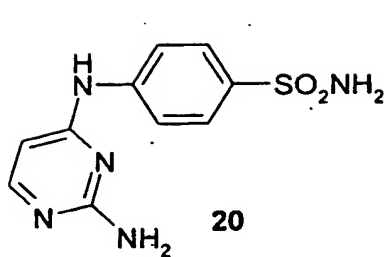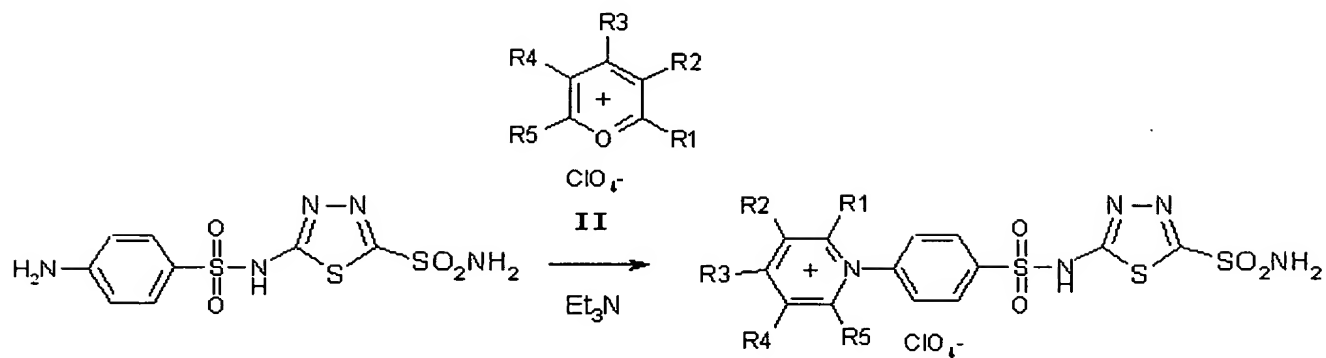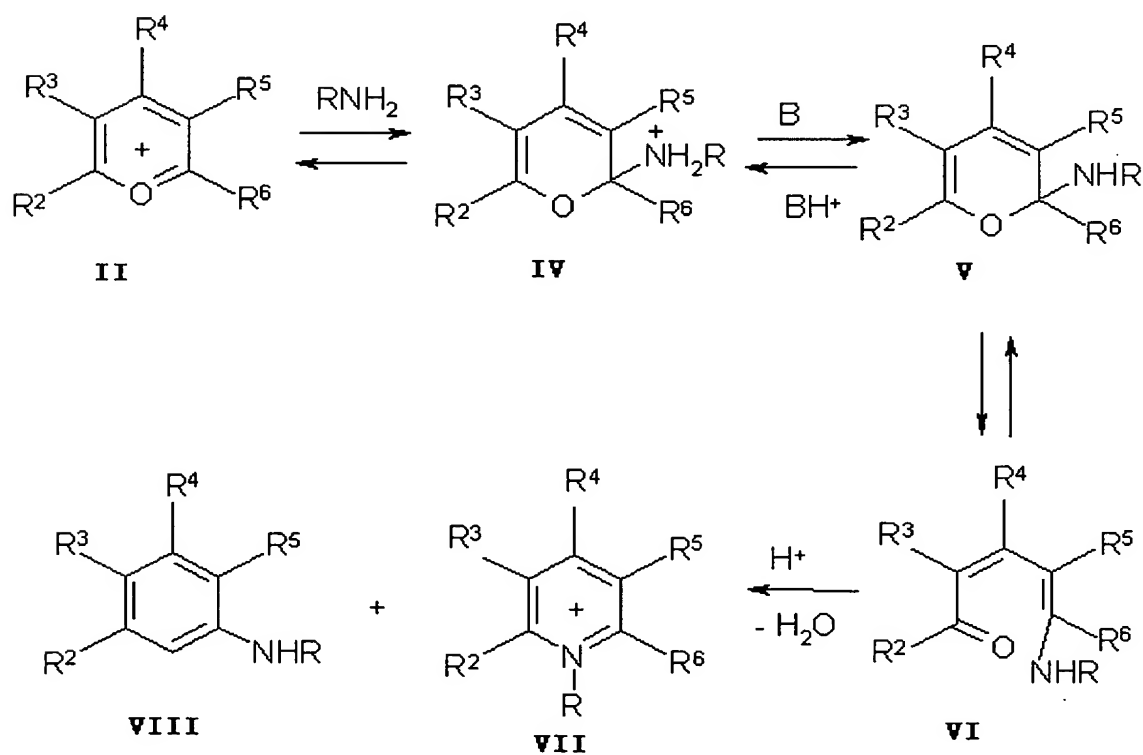**20**   **21**   **22**

23   **24**   **25**   **26**
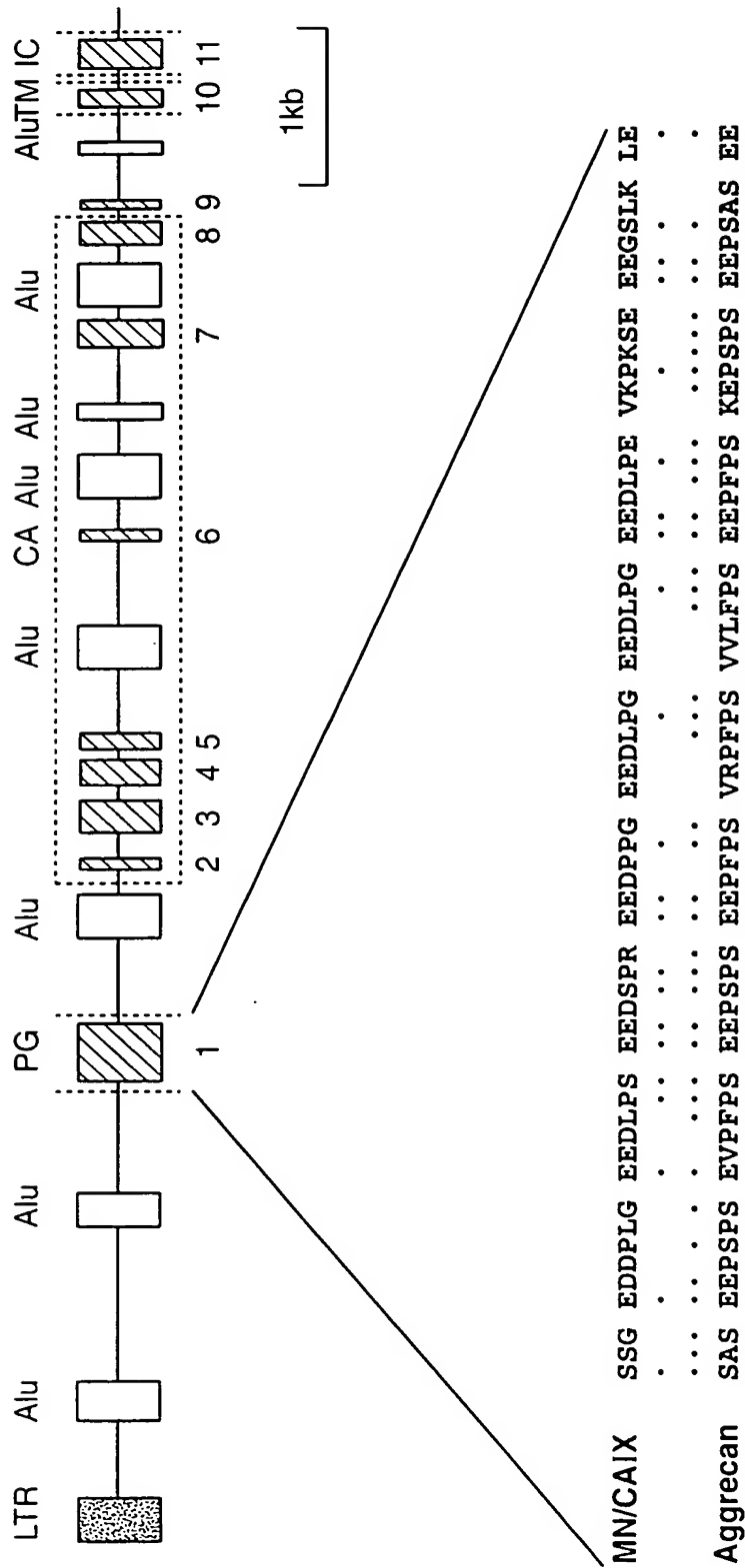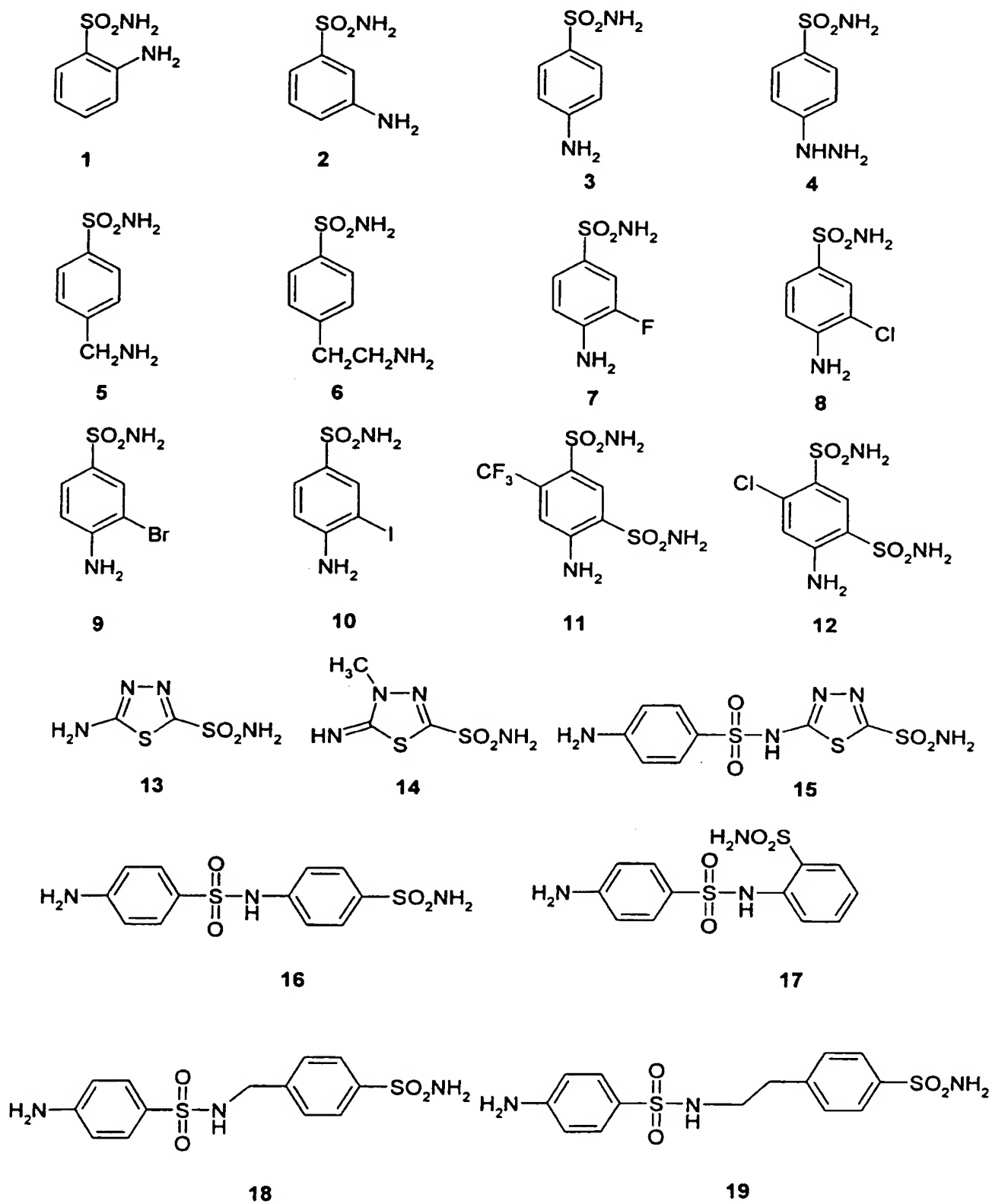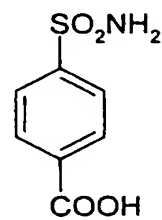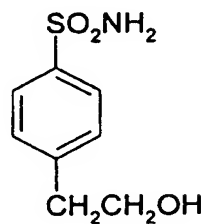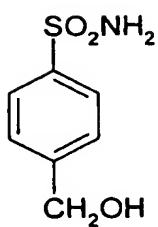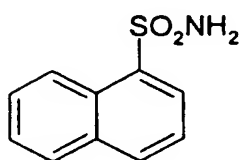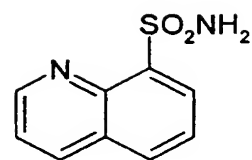
FIG._4B

Scheme 1

FIG._5

Scheme 2

(For R⁶ or R² Me)

FIG._6